

# EXPLORATORY BORING LOG

**Project Name:** 

Project Number: 3-30055-32

Ultramar Station No. 700 7898 Old Redwood Highway Cotati, California

Boring No. MW-19

Date Drilled:

7/31/91

Logged By: N. L. Nack

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- 20 - 20 - 21	19-117-	115	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		, ι	, , , , , , , , , , , , , , , , , , ,	ν 4 ν γ		Depth (ft.)
		19-1							Sample No.
25		28		15		-	25		Blows/Foot
SC	ρ	SC .	ρ,	SC	A.	SC	£	3	Unified Soil Classification
CLAYEY SAND, olive brown (2.5Y 4/4), clay =30-40%, moderately dense, saturated, 4-5 inch thick clay interbeds	SILTY CLAY, brown (10YR 5/3), silt ≈20%, sand ≈15%, medium stiff, moist	CLAYEY SAND, dark yellowish brown (10YR 4/3), clay =30-40%, medium grained, increasing in clay content down section, moderately dense, moist	CLAY, dark brown (10YR 3/3), silt =20%, sand =15%, medium stiff, moist	CLAYEY SAND, dark brown (10YR 5/3), clay ≈40%. decreases downward, sand grades from coarse to fine downward	CLAY, dark brown (10YR 3/3), silt ≈20%, sand ≈15%, medium stiff, moist	SAND, dark brown (10YR 3/3), clay 30-40% bangular, moderately dense	vel in first 1-1/2 feet	3 inch asphalt, 8 inch aggregate base, then 1 inch base, then 1 inch asphalt	SOIL DESCRIPTION
M	<u> </u>								Water Level
	0.0			0.0		<b></b> .	0.0		OVM Reading (ppm)

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# EXPLORATORY BORING LOG

**Project Name:** 

Ultramar Station No. 700

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Boring No. MW-19

7898 Old Redwood Highway Cotati, California

Date Drilled:

7/30/91

Project Number: 3-30055-32

Logged By:

N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
De	Sai	Ble	55		W	ÓĒ
22 -				CLAYEY SAND, con't		
- 25   - 26   - 27 28 29 30   - 3		19	Mī <b>K</b> CĪ SĒ SC	CLAYEY SILT, olive (5Y 4/4) with sand, silt 50-60%, fine grained sand \$\sigma 5-10%_ \ POORLY GRADED SAND, olive (5Y 4/4), medium grained, moderately dense saturated CLAYEY SAND, dark grayish brown (10YR 4/2), clay \$\sigma 30-40\%, moderately dense, wet		0.0
- 31 - 32 - - 33 - - 34 -		22	CL SC	SANDY CLAY, dark gray (5Y 4/1) sand ≈30%, one inch thick-sand of CH at top, stiff, very moist  CLAYEY SAND, dark grayish brown (10YR 4/2), clay ≈30%, moderately dense to loose, saturated		0.0
- 35 - 36 - 37 - - 38 - - 39 - - 40		19	CL SC	Sandy CLAY with silt, dark grayish brown (10YR 4/2), silt ~20%, sand ~30%, soft, saturated  CLAYEY SAND, dark gray (5GY 4/1), silt ~20%, clay ~20%, moderately dense, saturated		0.0
- 41 - 42		20	CH SP	- traces of gravel, thin layers of sandy clay and poorly graded sand  CLAY, gray (5Y 4/1) sand =20%, silt =20%, stiff, moist  POORLY GRADED SAND, light olive gray (5Y 6/2), fine grained with pockets of course sand		0.0

REVIEWED BY R.G./C.E.G. Cuf ce 4 1262

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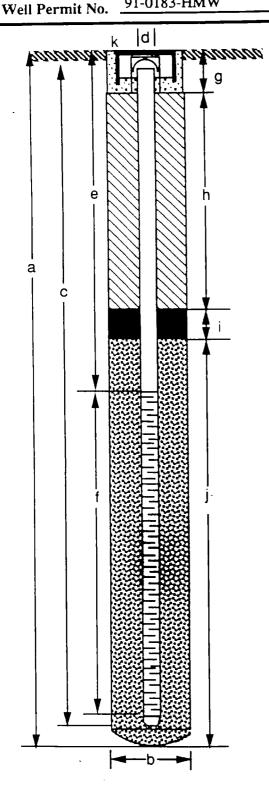


# MONITORING WELL DETAIL

Project Number Project Name County

3-30055-32	
Ultramar Station No. 700	
Sonoma	
91-0183-HMW	

Paring/Wall No.	MW-19	
Boring/Well No. — Top of Casing Elev. —	106.43	
Ground Surface Elev. —	106.82	
Datum —	Mean Sea Level	_



### **EXPLORATORY BORING**

a.	Total depth		60	ft.
b.	Diameter		8	in.
	Drilling method	Hollow stem auger		

### WELL CONSTRUCTION

c.	Casing length 40.	ft.
	Material Schedule 40 PVC	
d.	Diameter 2	in.
e.	Depth to top perforations 20	ft.
f.	Perforated length 20	ft.
	Perforated interval from 40 to 20	ft.
	Perforation type Slot	
	Perforation size 0.02	in.
g.	Surface seal 2	ft.
	Seal material Concrete	
h.	Backfill 15	ft.
	Backfill material Cement	
i.	Seal2	ft.
	Seal material Bentonite Pellets	
j.	Gravel pack 26	ft.
	Pack material 2/12 sand	
k.	Water tight traffic rated vault box	

Note: Hole caved and packed by driller 4 feet. Bentonite seal 1 foot.



## **EXPLORATORY BORING LOG**

Project Name: Ultramar Station No. 700

Project Number: 3-30055-32

7898 Old Redwood Highway

Cotati, California

Boring No. MW-19

Date Drilled: 7/30/91

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
- 43 - 44 - 45 - 45 - 46 - 47 - 48 - 48 - 49		31	SM	Poorly graded sand (con't)  SILTY SAND, light olive brown (2.5Y 5/4), silt ≈30%, clay ≈10%, moderately dense, wet  - interbeds of clayey sand, clay, and poorly graded sand ≈6 inch thick throughtout section		0.0
- 50 - 51 - 52 - 53 - 53 - 54 - 55		37				
- 56 58 60 62 62		41 17 56	P. P.	CLAY, olive gray (5Y 5/2), silt ≈15%, sand 10-15%, some mafics plastic hard, moist.  Sandy CLAY, dark grayish brown (2.5Y 4/2) sand 30-40%, silt ≈15%, very moist, stiff  CLAY, olive gray (5Y 5/2), silt ≈15%, sand 20-30%, stiff, modeately dense grades to clayey sand then back to CL  CLAYEY SAND, gray, ≈10% clay, 20% silt, moderately dense, very moist  Bottom of Boring: 60 feet  Groundwater encountered at 20 feet		0.0
- 63 - 63						

REVIEWED BY R.G. C.E.G. CLUP CEC 1262

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